

File

State of California
The Resources Agency
DEPARTMENT OF WATER RESOURCES
DIVISION OF SAFETY OF DAMS

INSPECTION OF DAM AND RESERVOIR IN CERTIFIED STATUS

Name of dam Oroville Dam Dam No. 1-48 County Butte
Type of dam Earthfill Type of Spillway Gated Concrete Weir and Chute and
an adjacent concrete overpour emergency spillway
Water is 40.14 feet below spillway crest and 148.34 feet below dam crest.

*Elevation 773.66

Weather Conditions Sunny, cold

Contacts made Alex Zamaan, OFD; Michael Urbano and Dave Panec, O&M

Reason for inspection Periodic Evaluation (1st annual inspection)

Important Observations, Recommendations or Actions Taken

None

Conclusions

From the known information and the visual inspection, the dam, reservoir, and the appurtenances are judged satisfactory for continued use.

Item No.*	Item Name and Observation and Comment
A1-A4	<p><u>Dam</u> - The crest road was in excellent condition. The downstream embankment was viewed from the crest, from the upper left and right abutments, and from a path crossing the slope about 300 feet below the crest. No indication of slope instability, objectionable vegetation or rodent activity was observed. The upstream slope was viewed from the crest of the dam and found to be in satisfactory condition, with no signs of instability or excessive wave wash. Both the left and right foundation galleries and Terminal S were inspected. The existing cracks and seeps appear to have changed little since the last inspection. No indications of recent movement or additional cracking were observed.</p> <p>During the next gallery cleaning operation, the accumulated mineral deposits on the steps immediately upslope from station 18+20 should be removed.</p> <p><u>Bidwell Bar Canyon Saddle Dam and Parish Camp Saddle Dam</u> - The water surface was well below the toe of the respective embankments. The crest, slopes, and groins of each embankment were in good condition. No indications of instability, vegetation problems, or objectionable rodent activity were observed.</p>
6, 8, 10	<p><u>Spillway</u> - The spillways were inspected several times during the recent modification of gates 1 thru 4, and during the ongoing modification of the spillway boat launch facilities. Therefore, only a cursory review was performed. No unexpected conditions were noted at the main spillway or the emergency spillway. Mobilization for the repair of gates 5-8 will begin about the third week in May.</p>

Typed by wmp
Date 3/1/02
cc for Book/Owner

Use Field Sheet Standard
Numbers and Items
(See Reverse Side)

Inspected by W Pennington 3/1/02
Date of Inspection 1/29/02
Date of Report 3/1/02
Photos taken? Yes No X
Sheet 1 of 2 Sheets

INSPECTION OF DAM AND RESERVOIR IN CERTIFIED STATUS

Name of Dam Oroville

Dam No. 1-48

Date of Inspection 1/29/02

Observations and Comments (Continued)

Item No.*	Item Name and Observation and Comment
14,16	<u>Outlet</u> - Turbine 6 was running and the river outlets valves were closed. The river outlets were tested last November and will be tested again this May. DSOD will be invited to observe the test. The sloping intake structure and the Palermo tunnel will be inspected during the June 2002 examination.
17	<p><u>Seepage</u> - Seepage started at about elevation 798 in the left gallery and elevation 744 in the right gallery. This was the same as that noted during the inspection of June 2000, and was above the reservoir level.</p> <p>The drain flow appeared to increase normally as we progressed toward the seepage measurement weirs. The flow at the sump was about the same from both galleries. The right gallery was somewhat cleaner and drier than the left. No instrument readings were taken during the inspection.</p>
18	<p><u>Instrumentation</u> - Terminal S remains the same. Leakage from the piezometer tube bundle is still collected in a pan on the floor and routed via a 2-inch PVC pipe to the floor drain. The flow and contents of the pan are monitored weekly. A turbidity test is used to determine if the leakage is carrying sediment. The turbidity measurements are variable and may be due to dirty equipment according to Dave Panec. A plug has been devised to block off the tubing bundle in the event excessive seepage or signs of piping are observed. The plug gasket appears to be deteriorating in the ambient conditions of the gallery.</p> <p>Performance Report No. 10 covers the period from January 1991 through July 2000. The main dams, saddle dams were found to be safe for continued use. The Division of Operations and Maintenance will submit a new data package in the near future.</p> <p>My review of the Performance Report and the field inspection indicate that the dam is performing satisfactorily.</p>

Author/Typist WMP/wmp

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